



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Appl. of: i.Fine et al : Examiner: M. Kremer
Serial No. 10/702,044 : Group Art Unit: 3736

Filed: November 6, 2003
For: **METHOD & SYSTEM FOR NON-INVASIVE DETERMINATION
OF BLOOD RELATED PARAMETERS**

AMENDMENT

ASSISTANT COMMISSIONER FOR PATENTS
P.O.BOX 1450
ALEXANDRIA VA 22313-1450

Sir/Madam:

Responsive to the Office Action of April 15, 2005, the period for responding being extended herewith to September 15, 2005, reconsideration and allowance of the claims is requested in view of the following amendments and remarks.

IN THE CLAIMS

Please cancel claims 2, 4, 6-12, 14 and 16, and amend the claims as follows.

1. (Currently Amended) A non-invasive method for use in determining at least one desired characteristic of blood of a patient, the method comprising:

(a) creating a condition of artificial blood kinetics at a measurement location in a patient's blood perfused fleshy medium and maintaining this condition for a certain time period;

(b) applying an external electromagnetic field to the measurement location;

(c) detecting a time response of the medium from at least a portion of the measurement location to said external electromagnetic field, the response including at least one of an acoustic response to illuminating incident light having a wavelength in a range where the scattering properties of blood are sensitive to light radiation or an impedance of the portion of the medium; and

(d) generating measured data indicative of time evolutions of the response of the medium over at least a part of said certain time period;

(e) analyzing said measured data for determining at least one characteristic parameter derived from said time response of the medium, the characteristic parameter including at least one of